

Amendment
Serial No. 10/647,232
Attorney Docket No. 030980

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions of claims in the application:

1. (Currently amended): A method of extracting nucleic acid or protein using dendrimers,
in which comprising:

extracting nucleic acid or protein from a fluid using amino radicals of particulate bodies
mixed and dispersed in the fluid containing the nucleic acid or protein,
wherein the particulate bodies comprise multi-layer dendrimers~~are~~ formed on the surface
of fine particles, the amino radicals~~are being~~ formed on the surface of the dendrimers, ~~and~~
~~nucleic acid or protein is extracted using these amino radicals.~~

2. (Previously presented): A method of extracting nucleic acid or protein using
dendrimers in accordance with claim 1, wherein said fine particles are those of bacteria-derived
magnetic bodies, artificial magnetic bodies, metals, plastic beads, glass beads, or gel state
substances.

3. (Previously presented): A method of extracting nucleic acid or protein using
dendrimers in accordance with claim 1 or claim 2, wherein said dendrimers are laminated on the
surface of said fine particles after treating the surface of said fine particle with amino-silane.

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4. (Previously presented): A method of extracting nucleic acid or protein using dendrimers in accordance with claim 1 or claim 2, wherein said dendrimers are of the second generation and above.

5. (Previously presented): A method of extracting nucleic acid or protein using dendrimers in accordance with claim 1 or claim 2, wherein protein is extracted using the antigen-antibody reaction by bonding antibodies to the surface of said dendrimers.

6. (Currently amended): Dendrimers-compositional substances which are composed of fine particles, particulate bodies comprising multi-layer dendrimers repeatedly synthesized on the surface of ~~these~~ fine particles, and amino radicals covering the surface of the above dendrimers, ~~and are~~ said particulate bodies being capable of being mixed and dispersed in a fluid containing nucleic acid or protein and configured so that nucleic acid or protein can be captured by these amino radicals.

7. (Previously presented): Dendrimers-compositional substances in accordance with claim 6, wherein said fine particles are those of bacteria-derived magnetic bodies, artificial magnetic bodies, metals, plastic beads, glass beads, or gel state substances.

8. (Previously presented): Dendrimers-compositional substances in accordance with claim 6 or claim 7, wherein said dendrimers are laminated on the surface of said fine particles after treating the surface of said fine particles with amino-silane.

9. (Previously presented): Dendrimers-compositional substances in accordance with claim 6 or claim 7, wherein said dendrimers are of the second generation and above.

10. (Previously presented): Dendrimers-compositional substances in accordance with claim 6 or claim 7, which are configured so that protein is captured using the antigen-antibody reaction by bonding antibodies to the surface of said dendrimers.

11. (Currently amended): A method of extracting nucleic acid or protein using dendrimers ~~in accordance with claim 1, in which multi-layer dendrimers formed on the surface of fine particles, amino radicals are formed on the surface of the dendrimers, and nucleic acid or protein is extracted using these amino radicals,~~ wherein said fine particles are magnetic bodies.

12. (Previously presented): A method of extracting nucleic acid or protein using dendrimers in accordance with claim 11, wherein said magnetic bodies are bacteria-derived magnetic bodies.

13. (Previously presented): A method of extracting nucleic acid or protein using dendrimers in accordance with claim 11, wherein said magnetic bodies are artificial magnetic bodies.

14. (Previously presented): A method of extracting nucleic acid or protein using dendrimers in accordance with claim 11, wherein said fine particles have a size of about 50 to about 60 microns.

15. (Currently amended): A method of extracting nucleic acid or protein using dendrimers ~~in accordance with claim 1 or claim 2, in which multi-layer dendrimers formed on the surface of fine particles, amino radicals are formed on the surface of the dendrimers, and nucleic acid or protein is extracted using these amino radicals,~~ wherein said fine particles have a size of about 50 to about 60 microns.

16. (Currently amended): Dendrimers-compositional substances ~~in accordance with claim 6, which are composed of fine particles, multi-layer dendrimers repeatedly synthesized on the surface of these fine particles, and amino radicals covering the surface of the above dendrimers, and are configured so that nucleic acid or protein can be captured by these amino radicals,~~ wherein said fine particles are magnetic bodies.

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17. (Previously presented): Dendrimers-compositional substances in accordance with claim 16, wherein said magnetic bodies are bacteria-derived magnetic bodies.

18. (Previously presented): Dendrimers-compositional substances in accordance with claim 16, wherein said magnetic bodies are artificial magnetic bodies.

19. (Previously presented): Dendrimers-compositional substances in accordance with claim 16, wherein said fine particles have a size of about 50 to about 60 microns.

20. (Currently amended): Dendrimers-compositional substances in accordance with claim 6 or claim 7, which are composed of fine particles, multi-layer dendrimers repeatedly synthesized on the surface of these fine particles, and amino radicals covering the surface of the above dendrimers, and are configured so that nucleic acid or protein can be captured by these amino radicals, wherein said fine particles have a size of about 50 to about 60 microns.

21. (New): Dendrimers-compositional substances in accordance with claim 20, wherein said fine particles are those of bacteria-derived magnetic bodies, artificial magnetic bodies, metals, plastic beads, glass beads, or gel state substances.

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22. (New): A method of extracting nucleic acid or protein using dendrimers in accordance with claim 15, wherein said fine particles are those of bacteria-derived magnetic bodies, artificial magnetic bodies, metals, plastic beads, glass beads, or gel state substances.

23. (New): A method of extracting nucleic acid or protein using dendrimers in accordance with claim 15, wherein the fine particles are dispersed in a fluid containing the nucleic acid or protein.

24. (New): A method of extracting nucleic acid or protein using dendrimers in accordance with claim 11, wherein the fine particles are dispersed in a fluid containing the nucleic acid or protein.

25. (New): The method of claim 1, comprising forming the multilayers dendrimers on the surface of the fine particles and forming the amino radicals on the surface of the dendrimers.

26. (New): The method of claim 1, wherein the fluid is a solution.

27. (New): The method of claim 23, wherein the fluid is a solution.

28. (New): The method of claim 24, wherein the fluid is a solution.

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29. (New): A fluid containing the dendrimers-compositional substances according to claim 6 mixed and dispersed in the fluid.

30. (New): The fluid according to claim 29, which is a solution containing nucleic acid or protein.